

CLAIM AMENDMENTS

1 (Previously Presented) A method of determining participants of a distributed transaction in a
2 distributed system, the method comprising the steps of:
3 registering, in a name service, participant data that identifies a plurality of participants
4 that are participating in said distributed transaction, wherein said step of
5 registering occurs in response to said plurality of participants commencing
6 participation in said distributed transaction; and
7 causing a node that requires information about participants in said distributed transaction
8 to request said participant data from said name service.

1 2. (Previously Presented) The method of Claim 1, wherein the step of causing a node
2 includes causing said node to retrieve said participant data in response to said node
3 performing deadlock detection.

1 3. (Previously Presented) The method of Claim 1, wherein:
2 the step of registering includes registering in said name service participant data that
3 identifies which database servers of a plurality of database servers are
4 participating in said distributed transaction.

1 4. (Previously Presented) The method of Claim 1, further including the step of causing
2 updates to said participant data to identify a new participant in said distributed
3 transaction.

1 5. (Previously Presented) The method of Claim 4, wherein:
2 said distributed transaction is a distributed database transaction being executed by a set of
3 processes coordinated by a coordinator process;
4 the method further includes the step of said coordinator process causing a new process on
5 a database server to participate in said distributed database transaction; and

6 the step of causing updates to said participant data includes said coordinator process
7 causing updates to said participant data in response to said new process
8 participating in said distributed database transaction.

1 6. (Previously Presented) The method of Claim 1, wherein:
2 said distributed transaction is a distributed database transaction;
3 the step of registering includes registering participant data that identifies which database
4 servers of a plurality of database servers are participating in said distributed
5 database transaction; and
6 the step of causing a node includes causing a node that requires information about
7 participants in said distributed database transaction to retrieve said participant data
8 from said name service.

1 7. (Previously Presented) The method of Claim 1, wherein:
2 said distributed transaction is a distributed database transaction;
3 the method further includes the step of assigning a transaction identifier to said
4 distributed database transaction;
5 the step of registering includes registering, in said name service, data that associates said
6 participant data with said transaction identifier; and
7 the step of causing a node includes causing a node to request, from said name service,
8 published data associated with said transaction identifier.

1 8. (Previously Presented) The method of Claim 1, wherein the steps further include said
2 name service receiving a request from a first process to supply said participant data,
3 wherein said name service and said first process reside on said node.

1 9. (Previously Presented) The method of Claim 8, wherein the step of causing a node
2 includes said name service retrieving said participant data from one or more data
3 structures residing on said node in response to receiving said request.

1 10. (Canceled)

1 11. (Previously Presented) A computer-readable medium carrying one or more sequences of
2 one or more instructions for determining participants of a distributed transaction in a
3 distributed system, the one or more sequences of one or more instructions including
4 instructions which, when executed by one or more processors, cause the one or more
5 processors to perform the steps of:
6 registering in a name service participant data that identifies a plurality of participants that
7 are participating in said distributed transaction, wherein said step of registering
8 occurs in response to said plurality of participants commencing participation in
9 said distributed transaction; and
10 causing a node that requires information about participants in said distributed transaction
11 to request said participant data from said name service.

1 12. (Previously Presented) The computer-readable medium of Claim 11, wherein the step of
2 causing a node includes causing said node to retrieve said participant data in response to
3 said_node performing deadlock detection.

1 13. (Previously Presented) The computer-readable medium of Claim 11, wherein:
2 the step of registering includes registering in said name service participant data that
3 identifies which database servers of a plurality of database servers are
4 participating in said distributed transaction.

1 14. (Previously Presented) The computer-readable medium of Claim 11, further including the
2 step of causing updates to said participant data to identify a new participant in said
3 distributed transaction.

1 15. (Previously Presented) The computer-readable medium of Claim 14, wherein:
2 said distributed transaction is a distributed database transaction being executed by a set of
3 processes coordinated by a coordinator process;
4 the computer-readable medium further includes sequences of instructions for performing
5 the step of said coordinator process causing a new process on a database server to
6 participate in said distributed database transaction; and

7 the step of causing updates to said participant data includes said coordinator process
8 causing updates to said participant data in response to said new process
9 participating in said distributed database transaction.

1 16. (Previously Presented) The computer-readable medium of Claim 11, wherein:
2 said distributed transaction is a distributed database transaction;
3 the step of registering includes registering participant data that identifies which database
4 servers of a plurality of database servers are participating in said distributed
5 database transaction; and
6 the step of causing a node includes causing a node that requires information about
7 participants in said distributed database transaction to retrieve said participant data
8 from said name service.

1 17. (Previously Presented) The computer-readable medium of Claim 11, wherein:
2 said distributed transaction is a distributed database transaction;
3 the steps further include the step of assigning a transaction identifier to said distributed
4 database transaction;
5 the step of registering includes registering in said name service data that associates said
6 participant data with said transaction identifier; and
7 the step of causing a node includes causing a node to request, from said name service,
8 published data associated with said transaction identifier.

1 18. (Previously Presented) The computer-readable medium of Claim 11, wherein the steps
2 further include said name service receiving a request from a first process to supply said
3 participant data, wherein said name service and said first process reside on said node.

1 19. (Previously Presented) The computer-readable medium of Claim 18, wherein the step of
2 causing a node includes said name service retrieving said participant data from one or
3 more data structures residing on said node in response to receiving said request.

1 20. (Canceled)

- 1 21. (Canceled)
- 1 22. (Previously Presented) A method for determining a plurality of participants that are
2 participating in a distributed transaction, the method comprising the computer-
3 implemented steps of:
4 in response to said plurality of participants commencing participation in said distributed
5 transaction, receiving first data that identifies said plurality of participants;
6 in response to receiving said first data, registering said first data;
7 receiving a request from a node;
8 in response to said request from said node, providing second data to said node, wherein
9 said second data includes at least part of said first data.
- 1 23. (Previously Presented) The method of Claim 22, wherein a name service performs the
2 steps of receiving said first data, registering said first data, receiving said request, and
3 providing said second data.
- 1 24. (Currently Amended) The method of Claim 22, wherein said node uses said ~~information~~
2 second data to determine whether a deadlock exists, and wherein said request is received
3 after a particular participant of said plurality of participants has waited for a threshold
4 period of time.
- 1 25. (Previously Presented) The method of Claim 22, wherein:
2 said distributed transaction is a distributed database transaction; and
3 said first data identifies one or more database servers of a plurality of database servers
4 that are participating in said distributed database transaction.
- 1 26. (Previously Presented) The method of Claim 22, wherein:
2 said plurality of participants includes all participants in the distributed transaction; and
3 said first data identifies said all participants in the distributed transaction.

1 27. (Previously Presented) A computer-readable medium carrying one or more sequences of
2 one or more instructions for determining a plurality of participants that are participating
3 in a distributed transaction, the one or more sequences of one or more instructions
4 including instructions which, when executed by one or more processors, cause the one or
5 more processors to perform the steps of:
6 prior to said plurality of participants commencing participation in said distributed
7 transaction, receiving first data that identifies said plurality of participants;
8 in response to receiving said first data, registering said first data;
9 receiving a request from a node;
10 in response to said request from said node, providing second data to said node, wherein
11 said second data includes at least part of said first data.

1 28. (Previously Presented) The computer-readable medium of Claim 27, wherein a name
2 service performs the steps of receiving said first data, registering said first data, receiving
3 said request, and providing said second data.

1 29. (Currently Amended) The computer-readable medium of Claim 27, wherein said node
2 uses said ~~information~~ second data to determine whether a deadlock exists, and wherein
3 said request is received after a particular participant of said plurality of participants has
4 waited for a threshold period of time.

1 30. (Previously Presented) The computer-readable medium of Claim 27, wherein:
2 said distributed transaction is a distributed database transaction; and
3 said first data identifies one or more database servers of a plurality of database servers
4 that are participating in said distributed database transaction

1 31. (Previously Presented) The computer-readable medium of Claim 27, wherein:
2 said plurality of participants includes all participants in the distributed transaction; and
3 said first data identifies said all participants in the distributed transaction.

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